

Tiny: SV3 Pre-Launch Checklist

SV3 Pre-Launch Checklist

Date	2015-09-21T15:02:54.395Z	Glider Name	SV3-794595959(Tiny)
Tech(s)	Cwahl	Organization	Mbari
Payload(s)	S1, s2, s3 and g1	Project	Canon
Ship/Op Area	Mb and up to ano	Location	Using GPSUblox declination=13.411128, failoverC

Software Information

Id	Tiny, Running Regulus software version of 2015-02-08T22:15:44.913Z, production build 65
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Communication

Item/Procedure	Readings	Initials
WiFi Connection	WiFi is On	☒
Virtual Relay	ON. 0 queued msgs (Max=2147483647). Channel is TALKING (43/43 success rate) sleepTime=300000 packetSiz	☒
WGMS Iridium	ON. 0 queued msgs (Max=1). Channel is TALKING. IMEI:300434060708190, consecutiveErrors=0, sessionErrors=	☒
Vehicle telemetry received		☒
Tracker telemetry received	Battery (bars) 14.69wh Report Rate 4hr	☒

Configuration

Item/Procedure	Readings	Specifications	Initials
Topside RDF Frequency	N/a		☒
Hull RDF Frequency	N/a		☒
Tracker WGMS name	Tiny tracker		☒
Drybox WGMS name	Sv3-011 tiny		☒
Float name	Tiny		☒
Glider name	Tiny		☒
Thruder Serial Number	2c001c	Last 6 digits of Hardware ID found on AMPS page	☒
Event definitions		Compare against standard list	☒
Vehicle and tracker op area defined		Note area name(s) and enable alarms	☐
Escalation list created/populated			☒

Vehicle Status

Item/Procedure	Readings	Initials
Battery [Wh] > 700 Wh	581.89	☒
Solar Power Indicators: > 0	7.703 0.0 4.451 6.222	☒

Item/Procedure	Readings				Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	
Domain_Name=Host, Node=1, HW_SerNum=0x3132471639323739002d0037 On=Y	OK	24.8	117.8	Uptime: 3 days, 16:29:48	☒
Domain_Name=Thruder, Node=3, HW_SerNum=0x3333470738373634002c001c On=Y	OK	23.0	161.0	Uptime: 3 days, 16:22:48	☒
Domain_Name=PyldInt-0x3332470932363032002b0025, Node=7, HW_SerNum=0x3332470932363032002b0025 On=Y	OK	20.9	117.3	Uptime: 3 days, 14:13:41	☒

Mechanical Checks

	Item/Procedure	Specifications	Initials
Float	Wet-mates connected/lubed	3M Silicone Lubricant Spray: 3M ID No. 62-4678-4930-3	☒
	Connector covers secure		☒
	Drybox secure	Wiggle test	☐
	Contact info secure		☒
	Hull	Free of cracks and dings	☒
	Skeg/Fin	Secure	☒
Sub	Hardware secure		☒
	Umbilical visual inspection	Free of voids/defects	☐
	Roll pins inserted	Flushed with surface	☒
	Wings	Hardware secure with Loctite and Lock Nuts	☒
	Thruder	Hardware secure	☒

Vehicle Functionality

Item/Procedure	Readings	Specifications	Initials
Thruster Spin	0.0	Spins freely, slow and fast speeds	☒
Rudder Range of Motion		Rudder moves freely and smoothly	☒
Rudder right, left, center	Rudder(2015-09-21T15:02:53.131Z,desiredHeading=309.4,compass=359.4,rack=-19.9,post=-19)	Right, Left, Center	☒
Thruder Compass Correction	Thruder compass is NOT corrected		☒
Fixed heading test (spin)	90	Avoidance Off, Note Heading Used	☒
Waypoint course test (spin)	41	Avoidance Off, Note Waypoint Course Used	☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0	Catch release buoy by hand	☒
Octopus Cable 01	OK	Must Pass	☒
Octopus Cable 02	OK	Must Pass	☒
AIS Status	MMSI 367022180 (DONNA KATHLEEN). Pos=36.801630, -121.787272. t=30:0:NOT_DEFINED, 2015-09-21T15:02:1	If in harbor, must see MMSI	☒
Photo Document			☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications
WX reporting	Temp=21.4°C, Press=1008.4mb, Wind Speed=2.88kn, Wind Dir=141.5°. Heading=41.5°
UBLOX GPS	At [36.80251367, -121.78708917] @ 2015-09-21T15:02:55Z, quality=100
Airmar GPS	At [36.80252000, -121.78708667] @ 2015-09-21T15:02:50.900Z, quality=80
Torpedo GPS	At [36.80229165, -121.78704290] @ 2015-09-21T15:02:51Z, quality=65
Water speed readings	Out of the water; Unknown speed; No NMEA sentences seen yet
Obstacle Avoidance Status	Disabled
RDF beacon tested w/receiver	
Check alarms	"Out of bounds" red. All yellow/green

Comments

S3 pco2 pH
 G1 eco puck and vr2c
 New thruder 5794
 S1 payload has no pressure?

Technician Signature: Cwahl

Note: Once vehicle is launched the following tasks must be completed

1. Clear alarms
2. Log vehicle modifications in notebook
3. Vehicle on mission
4. Create *LAUNCHED* comment into WGMS
5. Upload photos to gallery website with album name: *YYYY-MM-DD VehicleName*

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